

WHAT IS CLAIMED IS:

1. A projection device for a motor vehicle, comprising in particular a reflector, a light source producing a set of light signals which can be reflected by the reflector, an exit lens, comprising an entry surface and an exit surface, for producing a light beam, and a shield disposed between the reflector and the exit lens in order to produce a cutoff in the light beam produced, wherein the exit lens comprises a set of arrangements produced in at least one side part of the exit surface of the lens, each arrangement being able to divert in a given direction a part of the light signals encountering this arrangement, the said arrangements being produced on the side parts of the exit surface of the exit lens.
2. A projection device according to claim 1, wherein the diversion directions are directions situated above the cutoff.
3. A projection device according to claim 1, wherein each arrangement is able to divert some of the light signals encountering this arrangement in a direction corresponding to a gantry point.
4. A projection device according to claim 1, wherein each arrangement is produced in the form of a protuberance on the exit surface of the lens.
5. A projection device according to claim 4, wherein the protuberance has a thickness of between 0.2 millimeters and 3 millimeters, in particular between 0.2 millimeters and 2 millimeters, or between 0.5 millimeters and 1 millimeter.

6. A projection device according to claim 1, wherein the exit lens comprises at least two distinct arrangements able to divert some of the light signals in distinct given directions.
7. A projection device according to claim 1, wherein the exit lens comprises at least two distinct arrangements in each of its side parts, and in particular four arrangements or six arrangements.
8. A projection device according to claim 1, wherein the exit lens comprises four, six or twelve distinct arrangements.
9. A projection device according to claim 1, wherein the exit lens comprises several arrangements able to divert some of the light signals in the same given direction.
10. A projection device according to claim 1, wherein each arrangement produced in the exit surface of the exit lens has an end situated at the periphery of the exit lens, or in the immediate vicinity of the periphery of the exit lens.
11. A projection device according to claim 1, wherein the arrangements produced in the exit surface of the exit lens are disposed on the exit surface of the exit lens symmetrically with respect to a vertical axis of the exit lens.
12. A projection device according to claim 1, wherein at least one of the arrangements is produced in the form of a serration.
13. An automobile equipped with a projection device according to claim 1.